



20th Century Reanalysis

Objective: Reconstruct global weather conditions in 6-hour intervals, 1871 – 2010

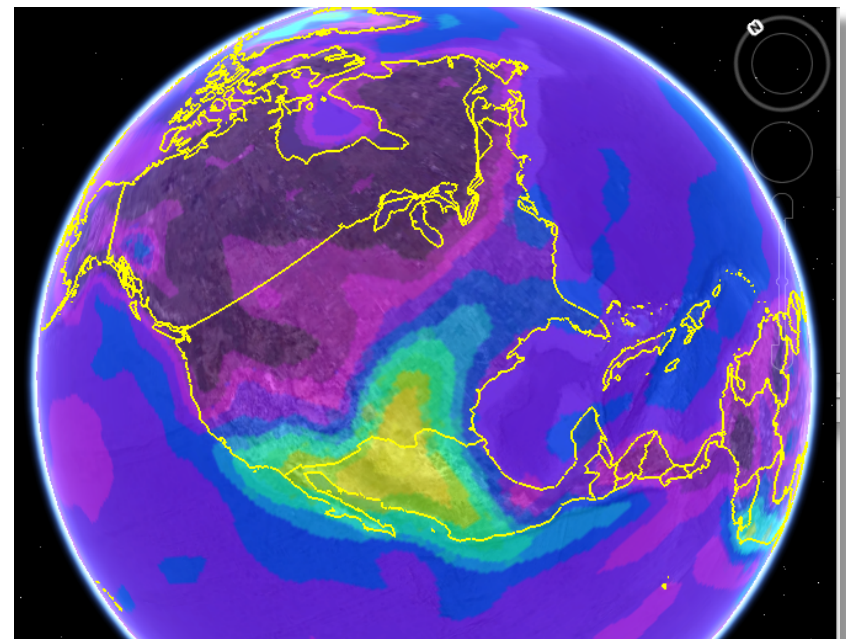
Implications: Help explain long-term impact of extreme weather by recreating and explaining past climate anomalies.

Accomplishments: Completed the first 3-D global weather database covering 150 yrs.

- Provided missing information about extreme climate events that may have misinformed earlier policy decisions.
- Will be an important validation tool for climate models used in making 21st Century climate projections.

NERSC: NERSC NISE award, 2010; Selected fields from the dataset are made available via a NERSC science gateway; key long-term NERSC Global Filesystem and user services roles.

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1000mb Relative Humidity (%) Composite Mean for 1920-1929, from 20th Century Reanalysis V2. Visualized by GoogleEarth.

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